

## KUSHAL ARUN GURRAM

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### EXPERIENCE

#### Data Science Engineer, Coherent Tech

Jul 2022 – May 2023

- Enhanced decision-making by identifying key performance indicators, analyzing business data to target systemic inefficiencies, and implementing benchmark analysis on US sites, leading to a 7% energy cost savings.
- Performed ETL on Amazon Redshift, handling 5TB data weekly and improving data workflows by 20%.
- Leveraged analytics with Neo4j across 10M+ data relationships, improving strategic outcomes by 30%. Drove market expansion by 15% by developing predictive models and advanced algorithms.
- Automated customer claim processes with machine learning (Classification/Prediction/Clustering) models. Utilized customer data analytics reducing 50,000 complaints yearly and boosting customer retention by 12%.
- Created interactive self-service analytical filters (Power-BI) fostering an enhanced business user experience.

#### Python analyst, Honeywell

Jun 2020 - Aug 2021

- Enhanced data accessibility by 35% by optimizing ETL and cleansing processes on Teradata using SQL and Python.
- Conducted in-depth ad-hoc analyses, developed ML models and algorithms (TensorFlow, SciKit-Learn) to identify data gaps, problems for loss on investment. Improved processes saving \$1M dollars annually.
- Built real-time ROI graphs (matplotlib, ggplot) to track and forecast investment returns, increasing annual profit by 17%.
- Streamlined data interpretation and reporting by integrating Alteryx, and Tableau increasing team's productivity by 30%.
- Communicated complex data-driven insights to cross-functional teams, influencing strategic business decisions.

#### Software Engineer, ISRO

Jan 2020 - Jun 2020

- Led a team of 5 in building encrypted SQL-Server and IP-Telephone (IVR). Increased performance by 25% via analytics.

#### Data Analyst, Smart Bridge

Apr 2017 - Nov 2019

- Crafted advanced SQL queries for data analysis and reporting, eliminating 20 hours of manual Excel tasks weekly.
- Reduced batch processing time by 20% by refining processes and re-designing ETL packages for SQL server.
- Created stored procedures in SQL to insert/update mapping values into mapping tables and aided in documentation.
- Extracted SAP backend data and developed SAP XSA model to aid IT security and diagnostic analysis.
- Engaged in client meetings to capture business requirements and identified analytical solutions.

### SKILLS

<b>Programming:</b>	Python, R, MATLAB, Scala, SQL, command line, NoSQL, C/C++, HTML, CSS
<b>Database:</b>	MySQL, MongoDB, Neo4j
<b>Data Science:</b>	Apache Spark, Hadoop, Big Data, TensorFlow, scikit-learn, NumPy, Pandas, matplotlib, ggPlot, Shiny
<b>Data Analysis:</b>	Data Visualization (Tableau, Power BI, Alteryx, Google Analytics), Data science pipeline (preparation, cleansing, exploration, Mining, transformation, Wrangling, modeling, interpretation)
<b>Machine Learning:</b>	Linear & Logistic Regression, DBSCAN, K-Mean & Hierarchical Clustering, Decision Trees, Neural Networks, Random Forest, Navies Bayes, SVM, Gradient Booster, NLP, Deep Learning, Keras, PyTorch
<b>Statistics:</b>	Descriptive and Inferential Analysis, A/B and Hypothesis Testing, Distribution, Experimental design, Statistical Modeling
<b>Others:</b>	JIRA, Trello, PowerPoint, Bit Bucket, SAS, SAP, APIs, Git, AWS, GCP

### PROJECTS AND LEADERSHIP

#### Fellowship, Correlation One

- Segmented 7,000+ customers, forecasting churn and detected fraud transactions with 91% accuracy in 9 million entries.

#### Teaching Assistant, JNTU

- Designed 3 ML and Ai Courses tutoring over 900 students via videos and hands-on sessions for Computer Lab.

#### Bird CLEF, Kaggle Competition

- Conducted EDA and Feature Engineering, identifying birds in recordings. Optimized a CNN model to handle noisy data.

### EDUCATION

MS | PACE University, Data Science & Machine Learning

UG | JNT University, Electronics, Mathematics (Statistics) & Computer Science

### AWARDS, CERTIFICATIONS & COURSES

Science Scholarship | Academic Excellence Scholarship | Best Intern (Indian Space Research Organization) | GCP | AWS | Algorithms for Machine Learning | Deep Learning & Ai | Big Data | Lean Sigma